

**3=D camera using transition time method**

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**Abstract of DE4439298**

The camera uses electromagnetic waves, pref. light waves, with at least one source (9) sending light waves towards a 3D scene (13). Light reflected from the 3D scene towards a receiver (23) is received and demodulated by an interdimensional detector. A modulation generator (1) modulates both the transmission source and the receiver. An evaluation unit (26) reconstructs the transition time relationships and hence the 3D coordinates from the measured intensity values. The source emits intensity modulated light with at least one spectral region but pref. three, corresp. to red, green and blue. Spectral separation is performed by at least one bandpass filter (17) and converted into electrical signals one pixel at a time, pref. by a multicolour CCD chip. The electrical signals are used to reconstruct images.

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